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SEQ ID NO 2
LENGTH: 722
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  GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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3-09-786-256C-32
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US-09-632-098-4
US-09-632-098-4
US-09-548-797B-6
US-09-813-819-4
US-09-920-048-4
US-09-920-048-2
US-09-920-048-2
US-08-264-101-2
US-08-765-243-2
US-08-765-243-8
US-08-765-243-8
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US-09-786-256C-15
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US-08-836-443-3
US-09-548-797B-5
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Maximum Match 100%
Listing first 45 summaries
                                                                                           - protein search, using sw model
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Maximum DB
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US-08-836-43-3
Sequence 3, Application US/08836443
Factor 10. 5883241
GENERAL INFORMATION:
APPLICANT: DOCHERTY, Andrew, J.P
APPLICANT: SLOCOMBE, Patrick, M.
TITLE OF INVENTION: HUMAN METALLOPROTEINASE AND VARIANTS THEREOF;
TITLE OF INVENTION: HUMAN METALLOPROTEINASE AND VARIANTS THEREOF
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                                                                                                                                                                                                                                                                                                                                                                        US-09-617-145-2
; Sequence 2, Application US/09617145
; Patent No. 648596
; GENERAL INCRAMATION:
; APPLICANT: Cerretti, Douglas P.
TITLE OF INVENTION: SVPHI-8 DNA and Polypeptides
; TILE REFERENCE: 03260.0050-00304
; CURRENT PILING DATE: 2000-07-14
; PRIOR PILING DATE: 1998-01-14
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIN Ver. 2.0
US-08-765-243-6
PCT-US95-07295-6
US-08-477-407-2
US-08-448-355-2
US-08-248-7978-4
US-09-548-7978-4
US-09-548-7978-4
US-09-608-477-407-1
US-09-608-790-1
US-09-608-790-1
US-09-026-001A-18
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Best Local Similarity 70.6%
Matches 144; Conservative
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CORGANISM: Homo sapiens
US-09-617-145-2
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Query Match
Best Local Similarity 41.3%
Matches 85; Conservative
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ORGANISM: Homo sapiens
US-09-632-098-2
                                                                                                      ; ORGANISM: Homo sapiens
US-09-548-797B-5
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Patent No. 6683165

GENERAL INFORMATION

APPLICANT: KEITH, TIM

TITLE OF INVENTION: OBESITY

FILE REPERENCE: 2976-4039

CURRENT APPLICATION NUMBER: US/09/548,797B

CURRENT FILING DATE: 2002-11-26
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CORRESPONDENČE ADDRESS:
ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSMAN, LLP
                                                                                                             COMPUTER READBLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: Diskette
COMPUTER: Diskette
COMPUTER: DISKETTE
COMPUTER: DISKETTE
COMPUTER: DOS
SOFTWARE: FastSEG for Windows Version 2.0
SURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,443
FILING DATE: 01-MAY-1997
CLASSIFICATION DATA:
APPLICATION NUMBER: 9709420
FILING DATE: 05-SEP-1997
APPLICATION NUMBER: 9612145.4
FILING DATE: 11-UN-1996
APPLICATION NUMBER: 9526230.9
FILING DATE: 21-DEC-1995
ATTORNEY, AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                              NAME: Resnick, David S
REGISTRATION NUMBER: 34,235
                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE/DOCKET NUMBER: 47.
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-523-3400
TELEFAX: 617-523-6440
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MOLECULE TYPE: No. 5883241e
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STRANDEDNESS:
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409 PDPGLPVPPALCGNGFVBAGEBCDCGPGQBC-RDLCCFAHNCSLRPGAQCAHGDCCVRCL 467
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EIFGQDARSASQSCYQEINTQGNRFGHCGIVGT-TYVKCWTPDIMCGRVQCENVGVIPNL 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           528 QLWGPGSHPAPEACFQVVNSAGDAHGNCGQDSEGHFLPCAGRDALCGKLQCQ--GGKPSL 585
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                                                                                                                                                                                                                                                                   DB 4; Length 787;
                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Sheppard, Paul O.
APPLICANT: Baindur, Nand
APPLICANT: Bishop, Paul D.
TITLE OF INVENTION: MAMMALIAN ADHESION PROTEASE PEPTIDES
FILE REFERENCE: 99-39
                                                                                                                                                                                                                                                                 Query Match
35.4%; Score 422.5; DB 4
Best Local Similarity 41.3%; Pred. No. 3.5e-27;
Matches 85; Conservative 36; Mismatches 66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION NUMBER: US/09/632,098
CURRENT FILING DATE: 2000-08-02
SUMBER OF SEQ ID NOS: 26
SOFTWARE: PRACESQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      IE-----HSTVOOFHLN--DTTCWG 195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       586 LAPHMVPVDSTV---HLDGQEVTCRG 608
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PRIOR FILING DATE: 1999-04-13
NUMBER OF SEQ ID NOS: 170
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 5
LENGTH: 787
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; Sequence 2, Application US/09632098; Patent No. 6420154; GENERAL INFORMATION:
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August 27, 2004, 21:28:15; Search time 128 Seconds (without alignments) 450.310 Million cell updates/sec
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1192
1 PYPGNIFRLKYCGNLVVEEG......QFHLNDTTCWGTDYHLGMAI 204
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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Maximum Match 100%
Listing first 45 summaries
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Gapop 10.0 , Gapext 0.5
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1: geneseqp1980s:*
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5: geneseqp2001s:*
6: geneseqp2003as:*
7: geneseqp2003as:*
8: geneseqp2003bs:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Description	Aay17413 Human SVP		Adc78877 Human PRO	Abr39425 Human GEN	Aay17414 SVPH1-26	Aae13056 ADAM-20di	Aay03224 Amino aci	Aay28655 Human SVP	Abg76200 Human sna	Aae13057 ADAM-21di	Aab07739 A snake v	Aab07740 A snake v	Aab07741 A snake v	Aae13061 ADAM-29di	Aab07738 A snake v	Aab07743 A snake v	Aab07742 A snake v	Aab07705 Amino aci	Aau12273 Human PRO	Abol7717 Novel hum	Abu80971 Human PRO	Abu66671 Human PRO	Abu59752 Novel sec	Abo24942 Human sec	Abu66947 Human sec
Ω	AAY17413	AAY03223	ADC78877	ABR39425	AAY17414	AAE13056	AAY03224	AAY28655	ABG76200	AAE13057	AAB07739	AAB07740	AAB07741	AAE13061	AAB07738	AAB07743	AAB07742	AAB07705	AAU12273	AB017717	ABU80971	ABU66671	ABU59752	AB024942	ABU66947
DB	~	N	7	9	7	4	~	~	9	4	m	m	ო	4	m	ო	m	m	4	9	9	9	9	9	9
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% Query Match	100.0	100.0	100.0	100.0	94.6	94.6	72.5	72.5	72.5	70.5	66.1	66.1	66.1	64.8	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
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Ada45723 Novel hum	Ada76154 Human PRO	Ada18804 Human PRO	Ada61427 Homo sapi	Novel	Adb27753 Human PRO	Ada86232 Novel hum	Human	Ada47582 Human PRO	Human	Human	Novel	Human	Ada79196 Human PRO	Novel	Adb16537 Human PRO	Ada91629 Novel hum	Adb14692 Human PRO	Adb18653 Novel hum	Ada93868 Human PRO
ADA45723	ADA76154	ADA18804	ADA61427	ADB19212	ADB27753	ADA86232	ADB15796	ADA47582	ADA67377	ADB30384	ADA85680	ADA96892	ADA79196	ADA87335	ADB16537	ADA91629	ADB14692	ADB18653	ADA93868
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49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	. 49.5	49.5	49.5	49.5	49.5	49.5
590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5
56	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

ALIGNMENTS

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Gaps

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578

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LPSGTLCRQQVGECDLPEWCNGTSHQCPDDVYVQDGISCNVNAFCYEKTCNNHDIQCKEI 120
                                                                                                                                                                                                    FGQDARSASQSCYQEINTQGNRFGHCGIVGTTYVKCWTPDIMCGRVQCENVGVIPNLIEH 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention comprises the amino acid and coding sequences of human PRO proteins. The DNA and protein sequences of the invention are useful for the diagnosis and treatment of cancer and inflammatory bowel disease (e.g. ulcerative colitis or Crohn's disease). The present amino acid sequence represents a human PRO protein of the invention.
                                                                                                                                                                                                                      PYPGNIFRLKYCGNLVVEEGEECDCGTIRQCAKDPCCLLNCTLHPGAACAFGICCKDCKF
                                                                                                                                                            LPSGTLCRQQVGECDLPEWCNGTSHQCPDDVYVQDGISCNVNAFCYEKTCNNHDIQCKEI
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                                                                                     PYPGNIFRLKYCGNLVVEEGEECDCGTIRQCAKDPCCLLNCTLHPGAACAFGICCKDCKF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRO; cancer; inflammatory bowel disease; ulcerative colitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New PRO polynucleotide and polypeptide, useful for the manufacture medicament for diagnosing or treating cancer or inflammatory bowel disorder e.g., ulcerative colitis or Crohn's disease.
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                          Length 726;
                                                        Indels
                          100.0%; Score 1192; DB 2;
100.0%; Pred. No. 8.4e-88;
ive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 12; SEQ ID NO 106; 327pp; English.
                                                                                                                                                                                                                                                                                        602
                                                                                                                                                                                                                                                            STVQQFHLNDTTCWGTDYHLGMAI 204
                                                                                                                                                                                                                                                                                                                                                              ADC78877 standard; protein; 726 AA.
                                                                                                                                                                                                                                                                               STVQQFHLNDTTCWGTDYHLGMAI
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disorder e.g., ulcerative col
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19-OCT-2001; 2001US-0340083P
                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                      Local Similarity 100.
hes 204; Conservative
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N-PSDB; ADC78876.
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 Sequence 726 AA;
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                                                        Matches 204;
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                                                                                                                                                                                                                                 180
                                                                                                                                                                                                                                                            578
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         membrane metalloprotease protein; human; ADAM 16a; testis; contraceptive; vaccine; fertility diagnosis; fertility treatment.
                                                                                                                                                                                                                                                 519 FGGDARSASQSCYQEINTQGNRFGHCGIVGTTYVKCWTPDIMCGRVQCENVGVIPNLIEH
                                                                                                               1 PYPGNIFRLKYCGNLVVEEGEECDCGTIRQCAKDPCCLLNCTLHPGAACAFGICCKDCKF
                                                                                                                                            399 PYPGNIFRLKYCGNLVVEEGEECDCGTIRQCAKDPCCLLNCTLHPGAACAFGICCKDCKF
                                                                                                                                                                        LPSGTLCROOVGECDLPEWCNGTSHOCPDDVYVODGISCNVNAFCYEKTCNNHDIOCKEI
                                                                                                                                                                                                    459 LPSGTLCRQQVGECDLPEWCNGTSHQCPDDVYVQDGISCNVNAPCYEKTCNNHDIQCKEI
                                                                                                                                                                                                                                 FGQDARSASQSCYQEINTQGNRFGHCGIVGTTYVKCWTPDIMCGRVQCENVGVIPNLIEH
                                                                                      Gapa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New metalloprotease proteins ADAM16a and ADAM16b - useful in contraception, and in the evaluation and treatment of fertility.
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                                                          726;
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                                                          Length
                                                                                   Indels
                                                       100.0%; Score 1192; DB 2;
100.0%; Pred. No. 8.4e-88;
ive 0; Mismatches 0;
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/note= "signal peptide"
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 prognosis of testicular cancers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            98WO-EP004859
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                                                                                     Conservative
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N-PSDB; AAX28636.
                                                                      Similarity
                            Sequence 726 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         07-AUG-1997;
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Q28485 macaca fasc
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Q28659 oryctolagus
Q28477 macaca fasc
Q19056 papic anubi
Q28476 macaca fasc
Q4652 papic anubi
Q19050 oryctolagus
Q19050 oryctolagus
Q19050 oryctolagus
Q60410 cavia porce
P97777 rattus norv
Q80410 cavia porce
P97777 rattus norv
Q80410 cavia porce
P97777 rattus norv
Q80410 cavia porce
P97777 strus norv
Q80410 cavia porce
Q80406 homo sapien
Q7635 bos taurus
Q86688 sus scrofa
Q86688 sus scrofa
Q86688 sus scrofa
Q86789 strongyloce
Q807763 cocurnix co
Q97763 cocurnix co
                              0951w7 macaca fasc
019051 oryctolagus
042593 xenopus lae
     P70535 rattus norv
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Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
NCBI_TaxID=10090;
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SEQUENCE FROM N.A.

Choi I., Cho C.;

T "Cloning and characterization of ADAM29.";

Choily and characterization of ADAM29.";

T "Cloning and characterization of ADAM29.";

EMBL; AV190759; AA038663.1; -.

SO; GO:0004222; F:metalloendopeptidase activity; IEA.

GO; GO:006508; P:proteolysis and peptidolysis; IEA.

RI InterPro; IPR00588; ADAM Cysteine.

InterPro; IPR00588; ADAM Cysteine.

InterPro; IPR001569; Deptidase_M12B.

IN ETERPO; IPR002870; Peptidase_M12B.

R Pfam; PF01421; Reprolysin; 1.

Pfam; PF01421; Reprolysin; 1.

R Pfam; PF01421; Reprolysin; 1.

R Pron; PD0006664; Disintegrin; 1.

R PRINTS; PR00289; DISINTEGRIN.

R PRINTS; PR00289; DISINTEGRIN; 1.
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SWART; SM0050; DISIN; 1.
PROSITE; PS50215; ADAM MEPRO; 1.
PROSITE; PS50214; DISINTEGRIN 1; 1.
PROSITE; PS50214; DISINTEGRIN 2; 1.
SEQUENCE 763 AA; 86444 MW; P9EF082C3BFBBA80 CRC64;
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Last sequence update)
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  PRELIMINARY;
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1 PYPGNIFRLKXCGNLVVEEG......QFHLNDTTCWGTDYHLGMAI 204
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                           GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1017041 seqs, 315518202 residues
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Maximum Match 100%
Listing first 45 summaries
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**p_mbc:*

**p_phage:*

**p_plage:*

**p_plant:*

**p_virus:*

**p_v
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Gapop 10.0 , Gapext 0.5
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755.7
755.7
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749.5
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749.0
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Minimum DB seq Maximum DB seq

Database

Perfect score:

Seguence:

OM protein

Run on:

Scoring table:

Searched:

Length 763;

Score 753; DB 11; Pred. No. 5e-72;

63.2#; 58.6%;

Query Match Best Local Similarity

Š. Result

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120 IFGQDARSASQSCYQEINTQGNRFGHCGIVGTTYVKCWTPDIMCGRVQCENVGVIPNLIE 179
                                 CYQEINTQGNRFGHCGIVGTTYVKCWTPDIMCGRVQCENVGVIPNLIEHSTVQQFHLNDT 191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        72 GECDLPEWCNGTSHQCPDDVYVQDGISCNVNAFCYEKTCNNHDIQCKEIFGQDARSASQS
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                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. NCBI_TaxID=10090;
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(TrEMBLrel. 23, Last sequence update)
(TrEMBLrel. 25, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             55.7%; Score 664; DB 11; 54.4%; Pred. No. 1.6e-62; iive 33; Mismatches 55;
                                                                                                                                                                                          702 AA
                                                                                                 PRT;
                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
STRAIN=C57BL/6J; TISSUE-Testis;
MEDLINE=22354683; PubMed=12466851;
                                                                               180 HSTVQQFHLNDTTCWGTDYHLGMAI
                                                                                                                                                                                                                                                                        Similar to ADAM 26 precursor.
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Matches 105; Conservative
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                                                 62 PSGTLCRQQVGECDLPEWCNGTSHQCPDDVYVQDGISCNVNAFCYEKTCNNHDIQCKEIF 121
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 PYPGNIFRLKYCGNLVVERGERCDCGTIRQCAKDPCCLLNCTLHPGAACAFGICC-KDCK 59
                                                                                                                456 PSGTLCRKRDNICDLPEWCNGTSHECPDDAYVEDGIPCGVSAYCYEKQCNDRNEHCRQIF
 Gaps
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Musinae; Mus.
NCBI_TaxID=10090;
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43; Indels
                                                                                                                                                                                                                                                                                                                                                               01-MAR-2003 (TrEMBLrel. 23, Created)
01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
A disintegrin and metalloprotease domain 24.
Mus musculus (Mouse).
 41; Mismatches
                                                                                                                                                                                                                                                                                                                                     761 AA
                                                                                                                                                                                                                        182 TVQQFHLNDTTCWGTDYHLGMAI 204
                                                                                                                                                                                                                                          576 TIHFALVKNVSCWGTDYHTGTSL 598
 119; Conservative
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Gaps

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5.1.6
Compugen Ltd.
 GenCore version
Copyright (c) 1993 - 2004
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protein search, using sw model OM protein - August 27, 2004, 21:38:21; Search time 40 Seconds (without alignments) 490.577 Million cell updates/sec Run on:

US-10-633-202-2_COPY_399_602 1192 Title: Perfect score:

1 PYPGNIFRLKYCGNLVVEEG.......QFHLNDTTCWGTDYHLGMAI 204 Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

283366 segs, 96191526 residues Searched:

283366 Total number of hits satisfying chosen parameters:

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Database :

PIR 78:*
1: pir1:*
2: pir2:*
3: pir3:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		de			SUMMARIES	
Result No.	Score	Query	Length	DB	ID	Description
п	567	47.6	655	7	JC7850	disintegrin and me
7	536.5	45.0	099	N	S71949	metalloproteinase
٣	502.5	42.2	473	~	I49283	ADAM 4 protein pre
4	501.5	42.1	735	0	148101	
S	468.5	39.3	732	~	152361	
9	467.5	39.5	713	~	I65253	disintegrin-like t
7	464	38.9	825	N	เก	fertilin alpha-II
80	464	38.9	905	~	855059	
6	442	37.1	900	0	I49281	fertilin alpha pre
10	425.5	35.7	903	N	860257	alpĥa -
11	417.5	35.0	151	~	860259	
12	402.5	33.8		7	S47656	tMDC II protein -
13	401.5	33.7		~	G02390	disintegrin-like m
14	391.5	32.8		~	I48100	ADAM 5 protein pre
15	390	•	734	~	JC4861	fertillin beta cha
16	386.5	32.4	176	7	S28258	androgen-regulated
17	384	32.2	670	N	165967	disintegrin-like m
18	375	31.5	735	ď	G02937	fertilin beta - cr
19	374	31.4	789	N	S28259	androgen-regulated
20	372	31.2	571	0	S24789	jararhagin C precu
21	371	31.1	609	N	855270	catrocollastatin p
22	369		419	7	A59414	metalloproteinase
23	367		150	N	S60258	meltrin beta - mou
24	359		429	~	A42972	coagulation factor
25	357.5	•	357	N	S23403	sperm surface prot
56	S		952	N	T18900	disintegrin and me
27	354	٩.	ч	~	S48160	metalloproteinase
28	353	29.6	ä	~	C153	vascular apoptosis
59	347	29.1	524	N	838539	disintegrin-like m

hypothetical prote	hemorrhagic protei	tMDC I protein - c	ecarin precursor -	platelet aggregati	platelet aggregati	atrolysin A (EC 3.	monocyte surface a	cyritestin precurs	metalloproteinase	probable zinc meta	sperm surface prot	bitan alpha - puff	trigramin precurso	applaggin - easter	albolabrin - green
T26644	A37877	S47645	A55796	JX0266	JX0265	S41607	A60385	S18968	S48169	T37819	S23402	F35982	A30065	A33990	A23731
0	2	~	~	~	~	~	2	7	~	7	~	7	_	N	7
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28.9	28	28	27	27	27	27	27	56	25	22	20	16	16	16	15
345	338	337	332.5	332	329	327.5	324	317	299.5	266	248	198.5	196	194.5	190
30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

ALIGNMENTS

Н	
SULT	7000

RESULT 1

disintegrin and metalloproteinase (ADAM) 9 protein, short form - human
NiAlternate names: MDC9 protein; meltrin gamma
C;Species: Homo sapiens (man)
C;Date: 18-Nov-2002 #sequence_revision 18-Nov-2002 #text_change 31-Mar-2003
C;Accession: JC7850
R;Hocoda, N.; Koike, H.; Sasagawa, N.; Ishiura, S.
B;chem Biophys. Res. Commun. 293, 800-805, 2002
A;Title: A secreted form of human ADAM9 has an alpha-secretase activity for APP.
A;Reference number: JC7850; MUID:22050095; PMID:12054541

A.Accession: JC7850 A.Molecule type: mRNA A.Residues: 1-655 cHOT> A.Cross-references: GB:AF495383 A.Cross-references: GB:AF495383 C.Comment: This protein, which is a member of the a disintegrin and metalloprotease (AD. C.Genetics:

A;Gene: adam9s

Gaps 14; Query Match 47.6%; Score 567; DB 2; Length 655; Best Local Similarity 46.4%; Pred. No. 1.8e-36; Matches 97; Conservative 36; Mismatches 62; Indels

406 PKPDEAYSAPSCGNXLVDAGEECDCGTPKECELDPCCEGSTCKLKSFAECAYGDCCKDCR 465 1 PYPGNIFRLKYCGNLVVEEGEECDCGTIRQCAKDPCCL-LNCTLHPGAACAFGICCKDCK ò q

60 FLPSGTLCRQQVGECDLPEWCNGTSHQCPDDVYVQDGISC-NVNAFCYEKTCNNHDIQCK 118 Š

466 FLPGGTLCRGKTSECDVPEYCNGSSQFCQPDVFIQNGYPCQNNKAYCYNGMCQYYDAQCQ 525 a

119

526 VIFGSKAKAAPKDCFIEVNSKGDRFGNCGFSGNEYKKCATGNALCGKLQCENVQEIPVFG 585 EIFGODARSASOSCYQEINTQGNRFGHCGIVGTTYVKCWTPDIMCGRVQCENV-----G 172 ઠે g

173 VIPNLIEHSTVQOFHLNDTTCWGTDYHLG 201 δ

셤

metalloproteinase 12 (EC 3.4.24.-) precursor - human
NyAlternate names: disintegrin 12; myeloma cell metalloproteinase MCMP
(species: Homo sapiens (man)
C;becasion: S71949; PC4264
Esquence_revision 17.Apr-1998 #text_change 04-Feb-2000
C;Accession: S71949; PC4264
E;McKie, N.; Dallas, D.4; Edwards, T.; Apperley, J.F.; Russell, R.G.G.; Croucher, P.I.
Biochem. J. 318, 459-462, 1996
A;Fitle: Cloning of a novel membrane-linked metalloproteinase from human myeloma cells.
A;Reference number: S71949; MUID:96404892; PMID:8809033

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Query Match
Best Local Similarity
Matches 84; Conserv
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A;Status: nucleic acid sequence not shown; not compared with conceptual translation
A;Molecule type: mRNA
A;Residues: 1-660 «MCK>
A;Residues: B; Edwards, T; Dallas, D.J; Houghton, A; Stringer, B; Graham, R; Russell,
B;Oochem. Biophys. Res. Commun. 230, 335-339, 1997
A;Reference number: PC4263; MUD:97168971; PMID:9016778
A;Recession: PC4264
A;Recession: PC4264
A;Recession: PC4264
A;Residues: nucleic acid sequence not shown
A;Molecule type: mRNA
A;Residues: 1-337 «MCF>
A;Residues: 1-34 »
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 288 PKPDEAYSAPSCGNKLVDAGEECDCGTPKECELDPCCEGSTCKLKSFAECAYGDCCKDCR 347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PLPSGTLCRQQVGECDLPEWCNGTSHQCPDDVYVQDGISC-NVNAFCYEKTCNNHDIQCK 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   348 FLPGGTLCRGKTSECDVPEYCNGSSQFCQPDVFIQNGYPCQNNKAYCYNGMCQYYDAQCQ 407
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ---PDIMCGRVQCENV-----GVIPNLIEHSTVQQFHLN 189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 38.5%; Pred. No. 4e-34;
Matches 97; Conservative 36; Mismatches 62; Indels 57,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EIFGQDARSASQSCYQEINTQGNRFGHCGIVGTTYVKCWT---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GTKCWGVDFQLG 533
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DITCWGTDYHLG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        71 VGECDLPEWCNGTSHQCPDDVYVQDGISCNVNAFCYEKTCNNHDIQCKEIFGQDARSASQ 130
                                                                    TLCRQQVGECDLPEWCNGTSHQCPDDVYVQDGISCNVNAFCYEKTCNNHDIQCKEIFGQD 124
                                                                                                                                                         125 ARSASOSCYQEINTQGNRFGHCGI----VGTTYVKCWTPDIMCGRVQCENVGVIPNLIEH 180
                                                                                                                                                                                                                                           246 VKDGSPACYNELNVKGDRFGNCGIGIIRGSQPVPCQKEDVFCGMIHCDGVSHIPGGGEH 305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SCYQEINTQGNRFGHCGIVGT--TYVKCWTPDIMCGRVQCENVGVIPNLIEHSTVQQFHL 188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     527 DCYÓ-INLKGNRFGHCRRRASQKSHIACATTÓVGCGRLÓCSNÝTHLPRLÓGHVSFHÓSKF 585
                                           64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11 YCGNLVVEEGEECDCGTIRQCAXDPCCLLNCTLHPGAACAFGICCKDCKFLPSGTLCRQQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Residues: 1-735 <RES>
A;Cross-references: EMBL:U22061; NID:g965007; PIDN:AAA74919.1; PID:g965008
                                           5 NIFRLKYCGNLVVEEGEECDCGTIRQCAKDPCCLLNCTLHPGAACAFGICCKDCKFLPSG
Gaps
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7;
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Indels
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C;Superfamily: mouse meltrin alpha; disintegrin homology
F;404-486/Domain: disintegrin homology <DIS>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      71;
77;
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Pred. No. 2.2e-31;
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42.1%; Score 501.5;
Best Local Similarity 44.5%; Pred. No. 2.2e
Matches 85; Conservative 32; Mismatches
                                                                                                                                                                                                                                                                                                                                                    TTFYHLKVQDVKEEQCFGYDAHHG 329
                                                                                                                                                                                                                                                                                                           STVQQFHLNDT---TCWGTDYHLG 201
84; Conservative
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encoding

ADAM 4 protein precursor - mouse (fragment)
C(Species: Mus musculus (house mouse)
C(Species: Mus musculus (house mouse)
C(Species: Mus musculus (house mouse)
C(Accession: 14928)
R(Wolfeberg, T.G.; Straight, P.D.; Gerena, R.L.; Huovila, A.P.; Primakoff, P.; Myles, I)
By (Bob. 169, 376-383, 1995
A,Title: ADAM, a widely distributed and developmentally regulated gene family encoding A,Reference number: 148100; MUID:95269891; PMID:7750654
A,Reference number: 149283
A,Refatus: preliminary; translated from GB/EMBL/DDBJ
A,Redidues: 1473 <RES>
A,Rossidues: 1-473 <RES>
A,Cross-references: EMBL:U22058; NID:9965013; PIDN:AAA74922.1; PID:9965014

A,Gene: ADAM4 C,Superfamily: mouse meltrin alpha; disintegrin homology F,129-211/Domain: disintegrin homology <DIS>

```
ADAM 6 protein precursor - guinea pig
Cispecies: Cavia porcellus (guinea pig)
Cipecies: Oz-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 31-Mar-2000
CiAccession: 148101
RiWolfsberg, T.G.; Straight, P.D.; Gerena, R.L.; Huovila, A.P.; Primakoff, P.; Myles, D.
Aper. Biol. 169, 378-383, 1995
A;Title: ADAM, a widely distributed and developmentally regulated gene family encoding manager. 148100; MUID:95269891; PMID:7750654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              - crab-ea
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C;Species: Macaca fascicularis (crab-eating macaque)
C;Date: 0.2-ul-1996 #sequence_revision 02-Jul-1996 #text_change 21-Jul-2000
C;Accession: 152361
R;Perry, A.C.F.; Jones, R.; Hall, L.
B;Dechen, J. 312, 239-244, 1995
A;Title: Analysis of transcripts encoding novel members of the mammalian metalloproteasc uctive monkey tissues.
    Length
    DB 2;
42.2%; Score 502.5; DB 2
41.2%; Pred. No. 1.3e-31;
ive 36; Mismatches 77
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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OM protein - protein search, using sw model

August 27, 2004, 21:35:21; Search time 24 Seconds (without alignments) 442.596 Million cell updates/sec Run on:

US-10-633-202-2_COPY_399_602 1192 1 PYPGNIFRLKYCGNLVVVEEG......QFHLNDTTCWGTDYHLGMAI 204 Title: Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

141681 seqs, 52070155 residues Searched:

141681 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

SwissProt 42:* Database : Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

	Description	homo	рошо	homo	O9r159 mus musculu	Q9ji76 mus musculu	Q9r160 mus musculu	mus m	homod	homo	5 rattu	Q60813 mus musculu	O43184 homo sapien	homo	Q61824 mus musculu	mus n		homo		Q8r534 mus musculu	pog	แนย	homo		uns r	Q28660 oryctolagus	Q99965 homo sapien	_	Q28475 macaca fasc			075078 homo sapien	974	O35227 mus musculu
SUMMARIES	ΩI	AD20 HUMAN	AD21_HUMAN		AD25 MOUSE	AD21 MOUSE	AD24 MOUSE	AD26 MOUSE	AD30_HUMAN	AD09 HUMAN	AD01 RAT	AD1A MOUSE	AD12 HUMAN	AD19_HUMAN	AD12 MOUSE	AD19_MOUSE			AD22_XENLA	AD1B_MOUSE	AD02 BOVIN	AD22_MOUSE	AD15_HUMAN	AD07 HUMAN	AD15_MOUSE	AD02 RABIT	AD02 HUMAN	AD11 MOUSE	AD07 MACFA	AD33 MOUSE	AD11_XENLA			AD07_MOUSE
	ength DB	726 1	722 1			729 1		697 1	790 1	819 1	789 1	791 1	909 1	956 1	903 1	920 1	813 1	906	935 1	-	П	857 1	7	754 1	864 1	751 1	735 1	773 1	776 1	797 1	452 1	769 1	816 1	788 1
de	Query Match Length	100.0	72.5	66.1	64.5	62.7	60.1	55.7	49.5		38.7	37.8	37.1	e	m	m	m	35	S	35.2	35.1	35.1	33.7	33.5	33.5	33.1	32.7	32.5	32.4	32.4	32.3	32.2	31.9	31.6
	Score	1192	864	788	169	747	716.5	664	590.5	567	461.5	LO.	ď	437.5	425.5	425.5	422.5	422	421	420	418	418	5	399.5	6	395	390	387	386.5	86	385	n	380.5	377
	Result No.	1	77	Ю	4	ស	9	7	60	D	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

Q28478 macaca fasc Q9xs16 macaca fasc Q63180 rattus norv P30431 bothrops ja Q9ukq2 homo sapien Q60718 mus musculu Q9j1n6 mus musculu Q60411 cavia porce Q63202 rattus norv Q9y3q7 homo sapien P20164 trimeresuru Q95194 macaca fasc
AD02 MACFA AD28 MACFA AD07_RAIT DISJ BOTJA AD02 MOUSE AD02 MOUSE AD02 CAVPO AD02 RAIT AD18 TRIFL AD18 MACFA
735 776 7896 771 735 735 735 736 737 737 736
31.5 31.5 31.5 331.4 330.7 229.7 229.5 228.6
2888888888888
33444933333333333333333333333333333333

ALIGNMENTS

DATESTUT 1 AD40 CHUMAN STANDARD; PRT; 726 AA. AD50 CHUMAN STANDARD; PRT; 726 AA. T16-CCT-2001 (Rel. 40, Last sequence update) DT 16-CCT-2001 (Rel. 40, Last sequence update) DT 16-CCT-2001 (Rel. 40, Last sequence update) DE ADAM 20 Precursor (EC 3.4.24) (A disintegrin and metalloproteinase domain 20). DE MADAXO. STANDARD SAD AS DEFEATED; PRIMATED;
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459 LPSGTLCRQQVGECDLPEWCNGTSHQCPDDVYVQDGISCNVNAPCYEKTCNNHDIQCKEI 518
                                                                                                                         204
                                                                                                                                              STVQQFHLNDTTCWGTDYHLGMAI
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EMBL, AF029900; AAC52042.1; -.
HSSP; P18619; IFVL.
MEROPS; M12.234; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE OF 181-722 FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       [1]
SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NCBI_TaxID=9606;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                399 PYPGNIFRLKYCGNLVVEBGEBCDCGTIRQCAKDPCCLLNCTUHPGAACAFGICCKDCKF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 PYPGNIFRLKYCGNLVVEEGEECDCGTIRQCAKDPCCLLNCTLHPGAACAFGICCKDCKF
                                                                                       M MIM, 600/1023-7: F. metallopeptidase activity; TAS.

R GO; GO: 00003338; P:fertilization (sensu Animalia); TAS.

R GO; GO: 00003338; P:fertilization (sensu Animalia); TAS.

R InterPro; IPR006509; EGF like.

R InterPro; IPR001809; Pept MIADA MI2B.

R InterPro; IPR001809; Peptidase_M12B.

R InterPro; IPR001809; Peptidase_M12B.

R InterPro; IPR001809; Peptidase_M12B.

R InterPro; IPR00200; Peptidase_M12B.

R Pfam; PF00200; Despidase_M12B.

R Pfam; PF0011Be; EGF_1; FALSE_NEG.

R Pfam; PF0011Be; EGF_2; FALSE_NEG.

R Pfam; Pfam
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(POTENTIAL).
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CELL ATTACHMENT SITE (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1; Length 726;
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(POTENTIAL).
(POTENTIAL).
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EXTRACELLULAR (POTENTIAL)
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(GLCNAC. ..)
(GLCNAC. ..)
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100.0%; Pred. No. 2.8e-90;
ive 0; Mismatches 0;
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C (IN REF. 2).
P (IN REF. 2).
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N-LINKED (GLCNAC.
N-LINKED (GLCNAC.
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(CATALYTIC)
(CATALYTIC)
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BY SIMILARITY.
POTENTIAL.
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                                  MEROPS; M12.218; -. Genew; HGNC:199; ADAM20.
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This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation-the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
FGQDARSASQSCYQEINTQGNRFGHCGIVGTTYVKCWTPDIMCGRVQCENVGVIPNLIEH 180
                                    AD21_HUMAN STANDARD; PRT; 722 AA.
69UKG16 (A3507;
16-OCT-2001 (Rel. 40, Last sequence update)
15-OKT-2004 (Rel. 43, Last annotation update)
15-MRA-2004 (Rel. 43, Last annotation update)
4DAM 21 precursor (EC 3.4.24.-) (A disintegrin and metalloproteinase domain 21).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE-98137801; PubMed-9469942;
Hooft van Huijsduijnen R.;
"ADAM 20 and 21; two novel human testis-specific membrane
metalloproceases with similarity to fertilin-alpha.";
Gene 206:273-282(1998).
-!- FUNCTION: May be involved in sperm maturation and/or
fertilization. May also be involved in epithelia functions
associated with etablishing and maintaining gradients of ions or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -1- COFACTOR: Binds 1 zinc ion per subunit (Potential).
-1- SUBCELLULAR LOCATION: Type I membrane protein.
-1- DOMAIN: A tripeptide motif (VGE) within disintegrin-like domain could be involved in the binding to egg integrin receptor and the could mediate sperm/egg binding.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE=99453762; PubMed=10524237;
Poindexter K., Nelson N., DuBose R.F., Black R.A., Cerretti D.P., The identification of seven metalloproteinase-disintegrin (ADAM) genes from genomic libraries.";
Gene 237:61-70(1999)
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Human SVP Human cDN

4ax90699

Jun

Fri

Perfect score:

Sequence:

OM protein -

Run on:

Scoring table:

Minimum DB Maximum DB

Searched:

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Adc19803 Human can
Adc19801 Human can
Adc19808 Human can
Adc19792 Human can
Adc19792 Human can
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Adc19795 Human can
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Adc19706 Human Can
Adac1910 Human PRO
Adac1920 Human BRO
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Adac1921 Novel hum
Add776153 Human PRO
Adac1762 Human PRO
Adac1761 Human PRO
               Abx11650 Human cDN
Aaa59304 DNA encod
Aaa59305 DNA encod
Aaa59306 DNA encod
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ADC19809
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ADC19808
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AAD21436
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                   ABX11650
AAA59304
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P-PSDB; AAY17413.
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   Command line parameters:
-MODEL=frame+ p21.model -1BV=x1p
-MODEL=frame+ p21.model -1BV=x1p
-MODEL=frame+ p21.model -1BV=x1p
-Cgn2 1/USPTO spool p/US10633202/runat 14062005 141725 13079/app_query.fasta_1.903
-D8=N Geneseq 16Dec04 -QFWR=fastap -SUFFIX=rng -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -STRRT=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MING-0 -ALIGN=25
-MODBE-LOCAL -OUTPWT=pto -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=200000000
-USER=US10633202 @CGN 1 1 708 @runat 14062005 141725 13079 -NCPU=6 -ICPU=3
-NO WMAP -LARGEQUERY -NGG SCORES=0 -WALT -DSPBLOCK=100 -LONGLOG
-DSV TIMEOUT=120 -WARN TIMEOUT=30 -THREADEL -XGAPEXT=0.5 -FGAPOP=6
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Abz76248 Human GEN
Aax28636 Nucleotid
Adc78876 Human PRO
Ade85180 Farnesyl
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                    GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                                                             nucleic search, using frame_plus_p2n model
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Ygapop 10.0 , Y
Fgapop 6.0 , E
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3230
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Database :

4030 4004 4004 4004

Result 8 us-10-633-202-2.rng

Page

human SVPH1-26 DNA useful for the diagnosis and prognosis of testicular cancers.

Claim 1; Page 70-73; 96pp; English.

The present sequence encodes human SVPH1-26. Human SVPH1-26 polypeptides are proteinases implicated in fertilisation and spermatogenesis. They can be used as therapeutic agents. A proteinase inhibitor of the catalytic domain would inhibit SVPH1-26 activity and would be useful as a method for birth control. Also, an inhibitor of the disintegrin domain of SVPH1-26 may affect fertilisation. The proteinase activity of SVPH1-26 can also be used as adetergent additive for the removal of stains having a protein component. The SVPH1-26 polypeptides and fragments can also be used as molecular weight markers, as markers for determination of isoelectric points of sample proteins and as controls for establishing the extent of fragmentation of a protein sample. The products can also be used for identifying, separating or purifying cells that express SVPH1-26 polypeptides such as testis cells. They can be used for the diagnosis and prognosis of testicular cancers

Sequence 2181 BP; 600 A; 423 C; 530 G; 628 T; 0 U; 0 Other;

Ď O	ednence	. 2181 BP;	600 A; 423 C; 5	530 G; 628 T; U L	u; o orner;
Alignment Pred. No. Score: Percent S Best Loca Query Mat DB:	No.: (t Simil (ocal Si	Alignment Scores: Pred. No.: Score: Percent Similarity: Best Local Similarity: Query Match:	0 4030.00 100.00\$ 100.00\$ 2	Length: Matches: Conservative: Mismatches: Indels: Gaps:	2181 726 0 0 0
US-10-6	33-202	-2 (1-726)	x AAX56461 (1	-2181)	
ò	н		MetAlaValGlyGluProLeuValHi	HisIleArgValThrL	LeuLeuLeuTrpPheGly 20
q	н	•	GGTGAGCCCCTGGTG	CACATCAGGGTCACTC	
ò	21		SerlleSerGlyHis	SerGlnAlaArgProS	MetPheLeuSerIleSerGlyHisSerGlnAlaArgProSerGlnTyrPheThrSerPro 40
QQ	61	•	STCTATTTCTGGCCAC	TCTCAGGCCAGGCCC	AIGITITITICTATTTTCTGGCCACTCTCAGGCCAGGCCCTCCCCAGTATTTCACTTCTCCA 120
ò	41		IleProLeuLysVal	IleSerArgGlyArg	GluValValIleProLeuLysValIleSerArgGlyArgGlyAlaLysAlaProGlyTrp 60
Ωp	121		BATCCCTTTGAAGGTG	ATCAGCAGGGCAGAC	GAAGTGGTGATCCTTTGAAGGTGATCAGCAGGGGCAGAGGTGCAAAGGCTCCTGGATGG 180
δ	61		SerLeuArgPheGly	GlyGlnArgTyrile	LeuSerTyrSerLeuArgPheGlyGlyGlnArgTyrIleValHisMetArgValAsnLys 80
qq	181		AGCCTGCGGTTTGGG	GGACAGAGATACATTC	CTCTCCTATAGCCTGCGGTTTTGGGGGACAGAGATACATTGTCCACATGAGGTAAATAAG 240
à	81		AlaAlaHisLeuPro	ValPheThrTyrThr	LeuLeuPheAlaAlaAlaHisLeuProValPheThrTyrThrGluGlnHisAlaLeuLeuGln 100
QQ	241	_	GCTGCACACCTTCCT	GTGTTCACCTACACAC	CTGTTGTTTGCTGCACACCTTCCTGTGTTCACCTACACAGAGCAGCAGCATGCCCTGCTCCAG 300
ò	101		PhelleGlnAspAsp	CysTyrTyrHisGly	AspGlnProPhelleGlnAspAspCysTyrTyrHisGlyTyrValGluGlyValProGlu 120
qq	301		CTTCATCCAGGATGAC	TGCTACTACCATGGT	GATCAGCCCTTCATCCAGGATGACTGCTACCATGCTTATGTGGAGGGGGTCCCTGAG 360
ò	121		AlaLeuSerThrCys	SerGlyGlyPheLeuC	SerLeuValAlaLeuSerThrCysSerGlyGlyPheLeuGlyMetLeuGln1leAsnAsp 140
QQ	361	-⊢	GCCCTTAGTACCTGT	TCTGGGGGCTTTCTTC	CCTTGGTTGCCCTTAGTACCTGTTCTTGGGGCCTTTCTTGGAATGCTACAGATAAATGAC 420
ò	141		GlulleLysProlle	SerValSerAlaThr	LeuValTyrGluIleLysProIleSerValSerAlaThrPheGluHisLeuValTyrLys 160
QQ	421	-	GAAATCAAGCCAATT	AGTGTTCTGCCACAI	CTTGTTTATGAAATCAAGCCAATTAGTGTTTTCTGCCACATTTGAACACCTAGTATATAAG 480
ò	161		AspaspThrGlnPhe	ProProMetArgCys(lleAspSerAspAspThrGlnPheProProMetArgCysGlyLeuThrGluGluLysIle 180
qq	481	-	GATGATACACAGTTT	CCACCTATGAGATGTC	ATAGACAGTGATGATACACAGTTTCCACCTATGAGATGTGGGTTAACAGAAGAGAAATA 540
λo	181	AlaHi	MetGluLeuGlnLeu	SerTyrAsnPheThr	BGInMetGluLeuGInLeuSerTyrAsnPheThrLeuLysGlnSerSerPheVal 200
q	541		SATGGAGTTGCAATTG	TCATATAATTTCACT	GCACACCAGATGGAGTTGCAATTGTCATATATTTCACTCTGAAGCAAAGTTCTTTTGTG 600

hes hes
241 ValAspSerPheTyrHisProLeuGluValAspValI1eLeuThrGly11eAspI1eTrp 260 [16] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1
'rpLysAsnTyrAsnLeuA
spThrGlnGlyMetLysLe
snThrGlyValAspValPb
lisGluLeuGlyHisAsnLe
nTrpCysIleMetHisa
.laglnTyrTrpAspSerTh
lyasnilePheargleuly
spCysGlyThrIleArgGl
yThrLeuCysArgGlnG
erHisGlnCysProAspAs
heCysTyrGluLysThrCy TCTGCTATGAAAGACGTG
spAlaArgSerAlaSerGl
lyHisCysGlyIleValGl
lyArgValGlnCysGluAs